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*Sept. 7/90*  
*27/90*

AUGUST 27, 1890.



Issued Every Week.

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Single copy 5 cents.

# Farmer

AND

NEW FARM.

OUR 27TH YEAR.

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When every family own their home, the prosperity of the Country is assured.

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WALWORTH & CO.,  
BALTIMORE, MD.



# For Sick Headache,

The most efficacious remedy is Ayer's Pills. They stimulate the liver, cleanse the stomach and bowels, restore healthy action to the digestive organs, and thus afford speedy and permanent relief. Those who have suffered for years from sick and nervous headache find Ayer's Pills to be an unfailing specific.

"Two boxes of Ayer's Pills cured me of severe headache, from which I was long a sufferer."—Emma Keyes, Hubbardston, Mass.

"For the cure of headache, Ayer's Cathartic Pills are the most effective medicine I ever used."—Robt. K. James, Dorchester, Mass.

"During several months past I have suffered from headache, without being able to find relief until I tried Ayer's Pills, which so much benefited me that I consider it my duty to publicly state the fact."—Mrs. M. Guymond, Fall River, Mass.

"I have now used Ayer's Pills in my family for seven or eight years. Whenever I have an attack of headache, to which I am very subject, I take a dose of Ayer's Pills and am always promptly relieved. I find them equally beneficial in colds; and, in my family, they are used for bilious complaints and other disturbances with such good effect that we rarely, if ever, have to call in a physician."—H. Vouliemé, Saratoga Springs, N. Y.

"In 1853, by the advice of a friend, I began the use of Ayer's Pills as a remedy for biliousness, constipation, high fevers, and colds. They served me better than anything I had previously tried."—H. W. Hersh, Judsonia, Arkansas.

"Headache, to which I am subject, is invariably cured by a dose or two of Ayer's Pills."—George Rodée, Homer, Cortland Co., N. Y.

"Ayer's Pills are the best I have ever used for headaches, and they act like a charm in relieving any disagreeable sensation in the stomach after eating."—Mrs. M. J. Ferguson, Pullens, Va.

"I have been affected, for years, with headache and indigestion, and though I spent nearly a fortune in medicines, I never found any relief until I began to take Ayer's Pills. Six bottles of these Pills completely cured me."—Benjamin Harper, Plymouth, Montserrat, W. I.

"After many years' experience with Ayer's Pills as a remedy for the large number of ailments caused by derangements of the liver, peculiar to malarial localities, simple justice prompts me to express to you my high appreciation of the merits of this medicine for the class of disorders I have named."—S. L. Longbridge, Bryan, Texas.

"During the past 28 years I have used Ayer's Pills in my family for all derangements of the stomach, liver, and bowels. They never failed to benefit."—Chauncey Herdsman, A. M., Business College, Woodside, Newark, N. J.

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## AND NEW FARM.

Vol. XXVII. BALTIMORE, August 27, 1890. No. 35.

For the Maryland Farmer.

### OUR NEW FARM, X.

#### IMPROVEMENTS.

We measured off three acres where Mr. Janney had planted his tomatoes last year and had it ploughed. We used a ten foot pole as our surveying instrument and although not accurate to the exact number of feet and inches got it near enough for all our work. The piece we called three acres measured 315 feet by 420 feet. Not having any fence around it we could use the whole piece.

Now I had a hobby which I determined to carry out on this piece of ground. I had made up my mind that currants and gooseberries were good crops to grow and it only remained for me to get the plants and start out in the work. At a rough estimate I thought I would need about

3500 plants and I had very little money to spend on anything which would not bring in some immediate return. I could not expect much from these for three years to come.

What should I do?

I resolved to get all the cuttings I could from my own straggling bushes and to purchase what I could from my neighbors and then send to some nurseries for the balance. I resolved to put them at once in the field where they should grow and place them six feet apart each way, so that I could grow rows of strawberries between them until they should begin to bear; or vegetables of some kind which would not prevent cultivation.

I afterwards found that I could use the land to advantage for cabbages and turnips as well as strawberries. Also, I attempted to grow some sweet potatoes and Irish potatoes there; but with only partial suc-



cess. However, enough to pay for all extra work needed.

I had seventy one rows on this three acre piece and fifty in a row. I planted them six rows of currants to one row of gooseberries, alternately. I got what I wanted in this way:

The old bushes overgrown with grass and weeds were dug up. The last year's wood all cut out and divided into pieces six or eight inches long; then the old roots, with sufficient old wood, was divided as thoroughly as I thought practicable. In this way I got all the gooseberry bushes I needed, 450; and nearly two thousand currants. Then I bought for one dollar, fifty one year old cherry currants and for another dollar a lot of (about 25) old bushes on the sight of a dwelling which had been burned down the previous year and not rebuilt. These finished my plantation and gave me a nursery plot of a few hundred to spare.

Here let me give an item of my experience. The old roots, although so much subdivided did the best—the one year cherry currant plants from the nursery and the cuttings were not very far apart. I shall always recommend anyone who sets out a plantation to get cuttings and set them in the field where he expects them to stand; unless he is fortunate enough to get old bushes.

Before leaving this subject I want to say that I labored under some disadvantage, because I wanted to have my plantation very straight and uniform as I expected it to stand for years to come. I therefore took a clothes-line about 100 feet in length and stretched it between stakes, and with a stick six feet long for my guide planted my currants and gooseberries.

The cuttings were merely thrust into the ground, leaving the top bud about level with the soil, and the dirt was pressed up against them tight with my foot. The

one year roots of the cherry currants occupied one whole row and required considerable time and care. The old divided roots did not take so much care, as the one year plants, but considerably more than did the cuttings. I felt a great work done when this plantation was finished.

Let me say here that the general directions for planting out currants is four feet apart for rows and three feet apart in the row, and for gooseberries the same or four feet each way. I thought, however, that having plenty of land, the extra room given by planting them six feet each way would add to their productiveness and give plenty of room when gathering the fruit.

This was all done four years ago, I am now preparing next fall to put cherry and Fay's prolific cuttings in the rows of currants; but to leave the gooseberries as they are.

About one in fifty of the rooted currants failed and about one in twenty of the cuttings failed, but I had enough in my nursery to replace them all and I have kept this plantation in good order.

I think if I had this work to do over again I would not be pestered by a clothes-line and a six foot stick—I would take a marker and run it off each way with the horse and plant at the checks. But I was green by nature as well as by name then and the reader must make some allowance.

While I was setting out this plantation my neighbors frequently had occasion to call and talk with me on the subject. They were somewhat skeptical upon the policy of it, and Mr. Burns said:

"Why, Mr. Green, you are just throwing your money and time away. You can't sell them after you grow them."

Then I said:

"Let us figure a little, Mr. Burns. In the city I cannot get a quart of currants for less than ten cents retail. Now, how

many currants can you get from one of your bushes?"

He answered:

"Four or five quarts, perhaps. But my bushes are old bushes."

Then I said:

"Well, my bushes will be old, too, after a few years. But suppose three years from now they average one quart to a bush; that will be 3500 quarts, which at 10cts would be \$350. Now strike off for leakage and expenses fifty dollars and we have that land yielding net \$100 an acre."

He began to scratch his head and he replied:

"You can't do it. You can't do it. That's nothing but figures, and I never did think much of figures."

At another time Mr. Camden came over and his son was with him and I talked with them on the subject. Mr. Camden was very much of the opinion of Mr. Burns; but James, I observed, was very silent and drank in all my arguments. The next day James came over alone, and helped me set out three rows of currants, he doing one row while I did the next. I knew he had come over to see what and how I worked it and to talk more.

He said:

"I want to learn all I can, and I don't want to stick to the same old ways if I can find something better."

Then I said:

"You have old established ways and plenty of stock; but I have no stock and no money to buy stock with. I've got to do the best I can until I get something ahead. But I believe I see a large income from these three acres in the future and as the cost in cash was very little I thought I would try it. I shall plant vegetables between the rows and so the ground will not be lost."

After that I told him all that I had done to provide the plants and he was

astonished that I had spent only two dollars in money.

That evening James brought his father over and I went over the subject again with him. It seems that James wanted to make the trial on a smaller scale, but his father thought it wouldn't amount to anything. Although he shook his head at my talk, he finally consented that James have a quarter of an acre and might take half the old currant bushes in the garden to try with.

Then I said:

"James, your land is rich, or you can make it rich if you want to. However, don't put anything on it this year, the cuttings won't do so well, if you do. Put your cuttings out and your old roots in rows four feet apart and three feet apart in the row. That will give you about 800 or 850 plants—and I would have a row of gooseberries running through the middle of the patch."

Then I told him the gooseberries were to attract the currant millers away from the currant bushes, as they preferred the gooseberry when they had their choice.

Writing now, the fifth summer after these things were started, I only wish you could see that quarter of an acre of James Camden's. It will this season turn more clean cash than any other three acres on Mr. Camden's farm, and he doesn't shake his head over James' wish to enlarge his currant plantation. Why, it almost hides James and my girl when they go down there to look at the currants. But I must not anticipate. This ground was rich and James did not spare any pains and the bushes are fairly immense. However mine are not very far behind.

Before I close this, I must tell you how we market these currants. We pick them on the stems, only using the good bunches, and we put them in quart boxes the same as the best strawberries, new and clean and bright. Then with every box, we

send a few green leaves and perhaps a flower—a rose bud, a geranium blossom, a pink or a Zinnia. Generous culture gives big bunches, and when the box is turned out, no one objects to the prices asked for them.

(To be continued next week.)

For The Maryland Farmer.

### CECIL COUNTY VISIT.

On Magnolia Hill, overlooking the busy village of Chesapeake City and the surrounding country is the fine residence of our friend, Mr. John W. Harriott. This is the residence on his home farm where he cultivates about 300 acres. Here he has a fine dwelling and all the comfortable surroundings of a pleasant home. Hosts of friends from all parts of the country, attracted by his generous hospitality and the welcome always bestowed by parents and daughters, make this home a continued round of enjoyment. Seldom can one drop in upon them without finding there the music and the laughter and the brilliant conversation of visiting friends.

When Mr. Harriott took possession of this farm, about sixteen years ago, it had but little of the richness and beauty which are now observable. Then all the buildings were of an inferior character and the dwelling consisted mostly of a one story log house, with a small frame attachment. The fields were there, but not in a very prosperous condition as to the crops, while the most evident want they exhibited was the want of intelligent labor and fertilization. Now, standing on the piazza in the shadow of his three story mansion and looking over his fields, magnificent with crops that cannot fail to impress the beholder; remembering the ample barns and

grain houses and hay barracks on every side of him; one can hardly refrain from saying: "See what energy, thought and good judgment can accomplish."

This home farm is divided by the navigable river leading from the Chesapeake Bay to Chesapeake City from another farm of about 200 acres more, which exhibits more of his perseverance and energy.

His principal crops are hay, corn and wheat; but he gives large attention, also, to fine stock. His methods may properly come under the head of mixed farming, and he has a natural love for the best of agricultural implements and machinery, so that, from the smallest tool to the steam thrasher and hay press, everything that can lighten labor and add to his success may be found in his possession.

This year his hay has proved the finest for many seasons, and the splendid weather has enabled him to secure it in splendid condition. His corn crop has the very finest appearance and promise, and his wheat at present prices will probably be a paying crop.

He has some of the very finest stock in this part of the country, and one of his heifers, 3<sup>rd</sup> Jersey, is a picture to look upon. He has had five heifers come in within the past few weeks, and they and their young would make a beautiful photographic picture for any lover of fine stock.

He has been especially fortunate in the past in having the abundant manure of the canal stable with which to fertilize his fields and this without a long haul, and now his abundant stock gives him great advantage over those who are forced to depend in great measure upon commercial fertilizers. Still his success must not be placed to the account of any particularly advantageous circumstances; but to an active diligence and a keen observation which enables him to use all favorable circumstances, and to an indomitable



pluck which gives him the determination to carry out his designs, no matter what amount of individual labor or inconvenience it occasions. He does not hesitate to take the most difficult task on himself whenever necessary to secure the success of any undertaking.

Nothing is impossible to the man willing to labor and to make personal sacrifice. This is the great lesson of Mr. Harriott's beautiful home farm and its surroundings.

D.

#### HOME SEEKERS' EXCURSIONS

AT HALF RATES, VIA WABASH LINE, will be run September 9th and 23d, and October 14th, to points in Southwest Missouri, Kansas, Nebraska, Arkansas, Indian Territory, Oklahoma, Texas, Colorado, New Mexico, Wyoming, Utah, Idaho, Montana, South and North Dakota, Iowa and Minnesota.

RATE—One Fare for Round Trip. For time tables, tickets and other particulars, apply to the nearest Ticket Agent of the Wabash or connecting Lines.

#### SOME ORIGINS.

Envelopes were first used in 1839.

The first steel pen was made in 1830.

The first air pump was made in 1650.

The first lucifer match was made in 1829.

The first iron steamship was built in 1830.

Ships were first "copper bottomed" in 1783.

The first use of a locomotive was in 1819.

The first steamboat plied the Hudson in 1807.

The first horse railroad was built in 1826-27.

The first newspaper advertisement appeared 1652.

The first watches were made in Nuremberg 1477.

The first sawmaker's anvil was brought to America in 1819.

#### MARYLAND FAIRS.

When held, and address of Secretary.

Baltimore Co., Timonium, Sept. 2—5  
H. C. Longnecker, Sec'y, Towson, Md.

Cecil Co., Elkton, Oct. 7—10.  
John Partridge, Sec'y., Elkton, Md.

Frederick Co., Frederick, Oct. 14—17.  
Geo. W. Cramer, Sec'y., Frederick, Md.

Montgomery County, Sept. 3—5.  
John E. Manchester, Sec'y., Norbeck, Md.

Talbot Co., Easton, Sept. 23—26.

Washington Co. Hagerstown, Oct. 14—17.  
P. A. Witmer, Sec'y., Hagerstown, Md.

Maryland State }  
combined with } Bel Air, Sep. 30—Oct. 3.  
Harford Co. }  
James W. McNabb, Sec'y., Bel Air Md.

Williams' Grove, Pa., Aug. 25—31  
R. H. Thomas, General Manager,  
Mechanicsburg, Pa.

Temperance puts wood on the fire, meal in the barrel, flour in the tub, money in the purse, credit in the country, contentment in the house, clothes on the back and vigor in the body.



length required. For free pamphlet showing "Why Ensilage Pays," and for free descriptive and illustrated catalogue of the best Tread-powers, Lever-powers, Threshers, Clover-hullers, Wood Saw-machines, Feed-mills and Fanning-mills, send to the old and reliable Empire Agricultural Works, over 30 years under same management. MINARD HARDEE, Proprietor, Cobleskill, N. Y.

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Entered as second class matter at Baltimore, Md.

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THE  
**MARYLAND FARMER**

AND  
NEW FARM.

*Agriculture, Live Stock and Home Life.*

Oldest Agricultural Journal in Maryland and  
for ten years the only one.

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Discounts, 10 off for 3 mos., 15 for 6, 20 for 9, 25 for 12  
Advertisements to be inserted once a month  
are subject to the same discount.  
Covers, p. 2 add 30, 3 add 25, 4 add 50.  
Special location, on any page, 20 per cent extra.  
No reading notices free.  
Reading notices twice the price of advertisements.

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ISSUED EVERY WEEK.

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**EXECUTION BY ELECTRICITY.**

This execution of the murderer Kemmler in New York, the horrible details of which have appeared in all the newspapers, brings prominently forward the question of Capital Punishment. It seems to us that the time should not be far distant when the State can guard against murderers in such a way, that imprisonment for life may be substituted for all these bungling methods of execution.

When any one becomes of so dangerous a character as murder implies, let that party be confined safely and with such precaution that he cannot exercise his murderous disposition. Then we shall have no more of these horrible morbid accounts in the public prints.

**MANUFACTURERS' PROFITS.**

Bills to foreign purchasers and bills from the same manufacturers to purchasers at home, have been exhibited in the U. S. Senate, to show that the tariff taxes have enabled manufacturers to charge our farmers nearly twice as much as they ask foreigners for the same goods. These are actual bills in both cases and show the amount which farmers are paying to swill the already plethoric purses of the manufacturers. The N. Y. World has aroused the country to these facts: but when they are demonstrated by actual bills of the goods sold presented in the U. S. Senate, is it not time to stop and think? Are the farmers of this country to continue to permit this enormous drain upon their resources to enable these lordly millionaires to sell their goods in foreign lands at half what we are paying? Must we starve our families, deny them decent clothing, deprive them of mental and moral improvements and recreation, to enable these others to roll in wealth and luxury? This is the result which the government taxes are now accomplishing. It is folly to say to the farmer that any other result can follow.

Let me rob you of some hundreds of millions and distribute the "swag" among a few favored manufacturers and you farmers will be much better off than you are now. What does this carry on its face? a truth or a lie? Yet this is the actual talk of those who favor grinding the farmer with heavier taxation.

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**DRUID HILL PARK SURPLUS.**

No one who has visited cities where public spirited citizens have any influence and has seen the great improvements added to the public parks, will hesitate a moment to condemn any use of the Park funds of this city outside of park improve-

ments. Let not one cent be diverted from the objects for which it has been accumulated.

Let the bounds of the Park be straightened as far as possible and let a perfect title be obtained for every foot of land within these straightened boundary lines. Extinguish the holdings of individuals within the Park limits. Then wisely expend the balance for permanent improvements.

We believe, too, that the Park should not be the object of extortion from any holding land within its limits; although they should receive liberal pay for their property. Let the land be condemned for public use in due course and the damages awarded be paid then promptly from the Park funds. We join those who protest against any part of the park fund being turned into the general city treasury.

#### SOME ITEMS.

We observe that an unknown and very fatal disease has recently taken off twenty head of fine Stock from one farmer at Fair hill, Cecil county. The State veterinary has been notified.

Wm. T. Harriot, Bohemian Manor, had two valuable heifers killed by lightning Thursday night of last week and on Friday morning following found a very fine colt (took \$50 premium last year at Cecil County Fair) in a gully with leg broken. We sympathize with him in his loss.

Elkton Stock Farm has lost a \$1500 brood mare. Cause, a broken leg.

Ex. Gov. Bowie, has decided to retire from all connection with horse racing, to sell all his famous horses and hereafter lead a quiet country life. We think this the part of wisdom. No life surpasses a

"quiet country life" in all the elements of true happiness.

To rejoice in the happiness of others is to make it our own; to produce it is to make it more than our own.

Let us be content in work to do the thing we can, and not presume to fret because it's little.

Give not thy tongue too great liberty lest it take thee prisoner. A word unspoken is, like the sword in the scabbard, thine. If vented, thy sword is in another's hand. If thou desire to be held wise, be so wise as to hold thy tongue.

Do not be troubled because you have not great virtues. God made a million spears of grass where he made one tree. The earth is fringed and carpeted, not with forests, but with grasses. Only have enough of little virtues and common fidelities, and you need not mourn because you are neither a hero nor a saint.

It is another's fault if he be ungrateful, but it is mine if I do not give. To find one thankful man, I will oblige many that are not so.

Faithfulness and constancy mean something else besides doing what is easiest and pleasantest to ourselves. They mean renouncing whatever is opposed to the reliance others have in us—whatever would cause misery to those whom the course of our lives has made dependant on us.



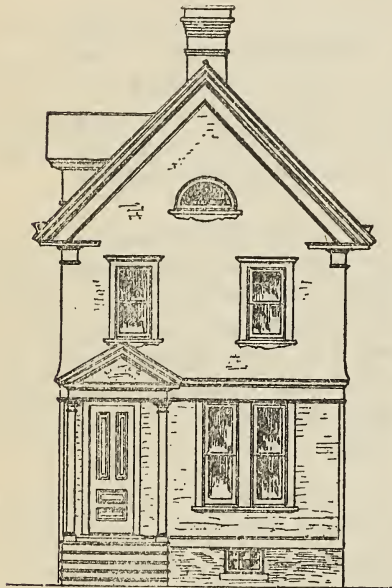
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## A CHEAP COTTAGE.

**An Inexpensive and Convenient House for Country or Village.**

These drawings represent the front and side elevations of a cheap cottage, suitable for the country or suburbs of a city. There is a cellar under the entire building 6 feet 6 inches in height. The height of the first story is 9 feet, the second story 8 feet 6 inches in the clear. The first story contains a sitting room, which also serves as a parlor, living room or kitchen combined, with closets and

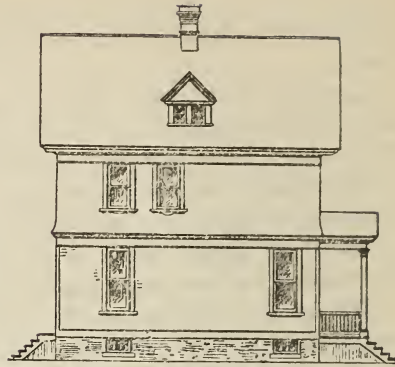


FRONT ELEVATION.

staircase hall. The front entrance is protected by a neat porch, which gives an attractive appearance to the building. In the second story are two good sized chambers and two small bedrooms, with closets, staircase hall and stairs leading to the attic. The attic is unfinished with the exception of the floor.

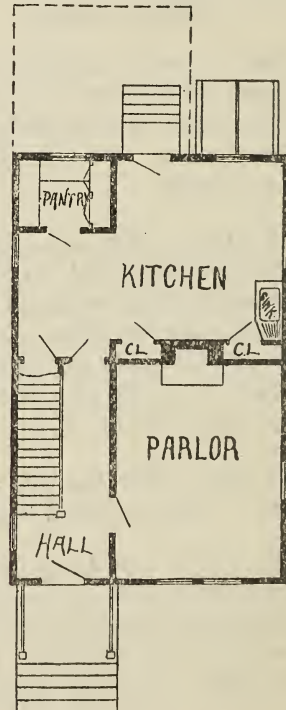
The stairway is lighted by means of a dormer window, which serves a threefold purpose of giving head room, light and a picturesque appearance to the outside of the house. The foundation walls are of brick, eight thick, laid in cement mortar; the chimney of selected hard brick, with pressed brick facings to fireplace, which has a rubbed slate hearth and open grate for burning coal. The side walls and ceilings are hard finished on one coat of brown mortar and well seasoned lath. The frame of the building is of sound dry spruce.

Ropes' Calculator—Grain Tables, and all kinds of calculations. 50 Cents. At This Office.



SIDE ELEVATION.

The side walls, roof and gables of main building are sheathed with  $\frac{3}{8}$  surfaced hemlock. The roof of porch, sheathed with  $\frac{1}{2}$  tongued and grooved spruce, the whole covered with waterproof sheathing paper. The roof of porch is tinned with I. C. charcoal tin, the side walls of first story are clapboarded with 6 beveled white pine siding, laid  $4\frac{1}{2}$  to the weather. The side walls, gables of porch and dormers and roof of main building and dormer windows are shingled with XXX white pine shingles laid 5 to the weather. All outside door and window casings, belt courses, base boards, cornices, finish of porch, steps, etc., of dry white pine  $1\frac{1}{2}$  thick. The shelves of wardrobe closets, store room and pantry

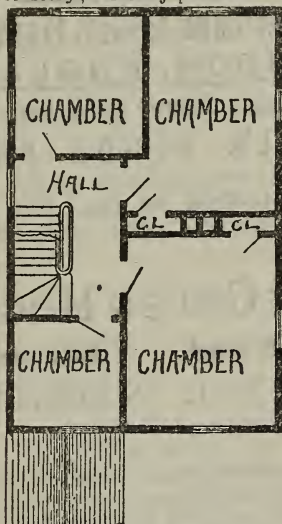


FIRST STORY PLAN.



are of whitewood, the treads and risers of stairs of yellow pine, rails, newels and balusters of cherry, all other inside woodwork, except doors, of North Carolina pine.

The front door is 2x3x7.6; outside kitchen door, 1½x2.10x7; closet doors of first story, 1½x2.4x7; main room doors of first story, 1½x2.8x7; the second story closet doors, 1½x2.4x6.10; main room doors of second story, 1½x2.8x6.10; attic doors, 1½x2.6x6.10; all of white pine or white wood, four panels molded both sides, hinged with black japanned iron butts, brass faced mortise locks, black japanned iron roses, drops and escutcheons in the first story; black japanned rim locks.



SECOND STORY PLAN.

brown mineral knobs, black japanned iron roses, drops and escutcheons and butts in the second story and attic. First story floor of ¾x4 yellow pine; second story floor of ¾x6 merchantable white pine; attic floor of ¾x4 spruce, all tongued and grooved, mill worked and blind nailed to each bearing; porch floor, 1½x4 white pine. Window sash 1½ thick, of white pine.

DAVID W. KING.

#### Too Bad.

"Well, I'm glad you are better, Emily. You don't look like an invalid."

"I know it, and I think it is just too horrid for anything. People will say I pretended to be an invalid because I had no summer clothes to wear.—Chatter.

Mrs. Hermann Oelrichs received as a wedding gift from King Kalakaua a yellow wreath which was greatly admired. It was made of the feathers of the golden hued O-o, a bird highly prized it Hawaii. There are but two of these bright feathers plucked from each bird.

#### Mrs. Curtis' Orchestra.

Mrs. John G. Curtis, of this city, is the founder of one of the most remarkable orchestras in existence. It is composed of men, women and children of musical ability, gathered from poor families, who pay a very small fee for the instruction Mrs. Curtis provides. Theodore John, formerly conductor of the orchestra of Freiburg, Germany, has had charge of the amateurs for the last three years, and under his excellent instruction and the inspiration of the fair patroness several of the pupils have been able to fill positions in professional orchestras. Mrs. Curtis has used her drawing room and hall in East Thirty-fifth street for practice, and here too her proteges have played to fashionable companies for charity. — New York World.

A daughter of Gen. Lyon, the Connecticut hero who served in the Mexican and civil wars, and who left all his property to the government to assist in carrying on the latter war, has been found serving as a cook in a graders' camp near Denver, Colo., where her husband, an invalid, was a workman. It is stated, also, that the wife of Lincoln's first private secretary, Frank Milton, is a cook on the steamer St. Croix, on a western river.

Superintendent Porter discovered in his mail bag on Thursday a letter from Indiana reading thus: "Finding a baby without a name that was born just in time to have its nose counted, and the family undecided as to a name, the matter was finally left to me, whereupon I christened him Porter F. Crabb, the first after you and the second for myself."

#### Keep the House Sweet.

Keeping the house sweet in these hot days, when things decay so rapidly, is difficult, but a few hints are useful. Three or four barrels of charcoal set in different parts of the cellar will be of great help in keeping the house sweet. In damp weather in summer a fire should be lighted in some room in the main part of the house, and the doors in all the rooms be opened in order that all the house may be kept dry.

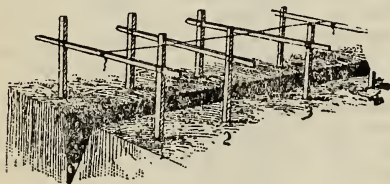
To have sweet homes one must be prodigal in the use of water, fresh air and sunlight.—New York Journal.

**Professor Carpenter's Illustrative Method  
For Laying Out Ditches and Leveling  
the Bottom Preparatory to Making Tile  
Drains When No Survey Has Been Made.**

The illustration here presented gives an accurate idea of Professor Carpenter's method for laying out tile drains, as originally explained by him in The Drainage Journal.

When no survey has been made Professor Carpenter uses the plow shown in the cut to determine the fall and the grade line. At No. 1 in the illustration he sets his first cross bar and stakes, so as to give a depth of four feet. At the furthest distance that can be seen he sets another cross bar and stakes, so as to give the required depth at that point—say three feet.

To find the fall between these two one has only to sight over a level of any construction, from the first cross bar to the last, and measure the intersection of this sight line to the cross bar, which will serve to show if there be any fall or not. After finding that there is sufficient fall between the two cross bars any number



LAYING TILE DRAINS.

of intermediate ones can be set by sighting, and accurately, too. Leave these in until the tile are laid under any given one, and you will find the work done with all the accuracy needed, and in much less time than if you had attempted any method which depended on leveling the bottom itself. Subsequently Professor Carpenter has recommended the stretching of a cord tight over the top of the cross bars, and to measure from the cord to the bottom of the drain to determine the level required for the bottom of the ditch. It is also necessary to have a tight line near the surface of the earth to guide the ditcher in setting the ditching spade. It is desirable to have the sides of the ditch even and straight from point to point at top and bottom, and especially so in the bottom.

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the fact that it is almost everywhere carried on as an incident of general agriculture. Every state and territory reports bees and more or less honey, usually a hive or a few colonies for each farmer, with occasionally an extensive apiary and large production. In some localities, as in portions of New York, Ohio, Tennessee and California, where existing conditions are particularly favorable, apiculture is more prominent.

The aggregate value of the annual honey and wax product is large, much larger than that of other crops of which more notice is usually taken. In the last annual report of the secretary of agriculture we are told that it almost equals the value of the rice or hop crop, falls but little short of the buckwheat product, exceeds the value of our cane molasses and of both maple sirup and sugar. It largely exceeds the aggregate value of all our vegetable fibers excepting cotton, and in 1879 was half as large as the wine product of the year. The latest official record of production by states is the return of the National census for 1879. It places the honey production at 25,743,208 pounds, and wax at 1,105,689 pounds, making the aggregate value over \$6,000,000. An excellent authority places the number of colonies of bees in the United States in 1881 at 3,000,000, and the honey product for that year at 20,000,000 pounds, the cash value of the year's honey crop exceeding \$30,000,000. Commenting on these figures Professor Cook thinks we may safely add as much more as the value of the increase of colonies, and we have a grand total of \$60,000,000, nearly enough to pay the interest on the national debt were the bonds all refunded.

#### A New Milking Machine.

Another milking machine has been introduced, this time in Scotland. Briefly described this machine is an evolution of the idea embodied in the bell and suction tube found in every druggist's shop for drawing the milk from a woman's breast. An iron section tube is fitted all round the byre and above the cows, and from this an india rubber tube descends to the vessel into which the milk is to be drawn. A belt is hung over the cow's back, and from this belt the close vessel into which the milk is to be drawn is suspended. Four separate india rubber tubes about a foot and a half long terminate in this vessel, and at the other end

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they have tin necks which go on to the separate teats of the cow. They do not grasp the teats, but fix themselves by the force of the suction to the udder at the root of the teats. The suction force is supplied by a force pump erected in a corner of the byre, which can be easily managed by a boy. The lid of the closed vessel is of glass, so that the milkmaid can see at a glance that the four different streams of milk from the different teats are coming all right, and this glass cover is also held on by the suction, and as soon as the suction force is switched off the glass lid can be lifted off and the tubes withdrawn from the teats.

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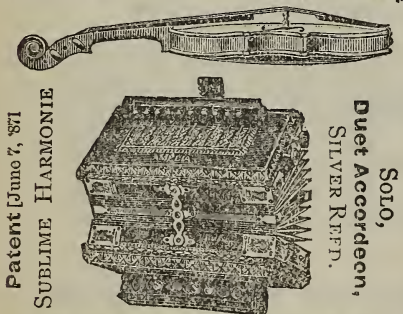
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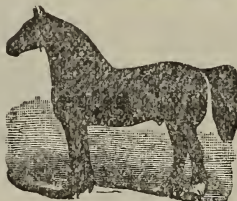
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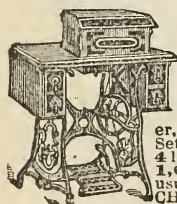
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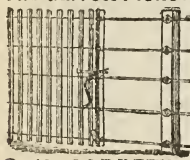


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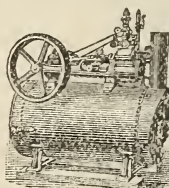
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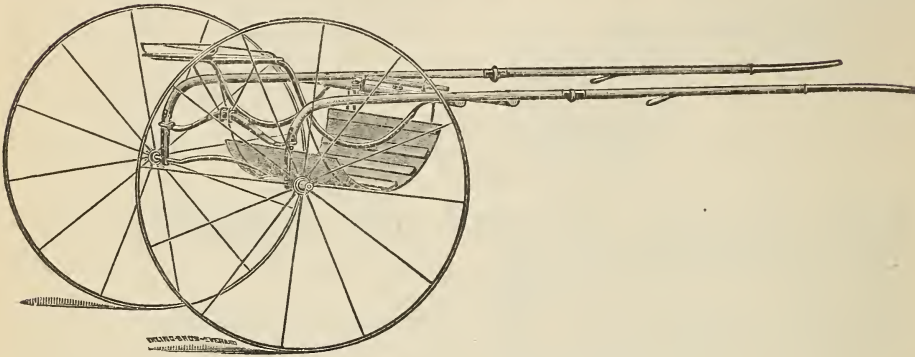
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